

Title (en)
FILTER ASSEMBLY AND MEDIA

Title (de)
FILTERANORDNUNG UND MEDIEN

Title (fr)
ENSEMBLE FILTRE ET MILIEU

Publication
EP 3946682 A4 20230125 (EN)

Application
EP 21774271 A 20210325

Priority
• US 202063000847 P 20200327
• US 2021024165 W 20210325

Abstract (en)
[origin: US2021299602A1] The present disclosure relates to a filter housing having a bowl and a head. The bowl is configured to house a portion of a filter cartridge. The bowl has an annular groove disposed about a rim of the bowl. The head is configured to mate with the bowl. The head includes an inlet, outlet, and a pair of levers. The inlet is to receive a flow of fluid into the filter housing. The outlet is to release the flow of fluid from the filter housing. The pair of levers are to draw the bowl partially into the head. Each lever has a first arm configured to mate with the annular groove, a second arm having a bearing surface, and a pivot disposed between the first arm and the second arm. A force upon the bearing surface urges the bowl into the head to form a seal.

IPC 8 full level
B01D 46/24 (2006.01); **B01D 35/30** (2006.01)

CPC (source: EP KR US)
B01D 35/303 (2013.01 - EP); **B01D 46/0001** (2013.01 - KR US); **B01D 46/0002** (2013.01 - EP); **B01D 46/0004** (2013.01 - EP KR US); **B01D 46/0005** (2013.01 - EP KR US); **B01D 46/003** (2013.01 - EP KR US); **B01D 46/2411** (2013.01 - EP KR US); **B01D 46/62** (2022.01 - KR US); **B01D 2201/301** (2013.01 - EP); **B01D 2201/4007** (2013.01 - EP); **B01D 2201/4015** (2013.01 - EP); **B01D 2201/4023** (2013.01 - EP); **B01D 2265/022** (2013.01 - EP KR US); **B01D 2265/025** (2013.01 - KR US); **B01D 2265/027** (2013.01 - EP KR US); **B01D 2271/02** (2013.01 - EP KR US)

Citation (search report)
• [XY] US 4529515 A 19850716 - SELZ ALOIS [DE]
• [Y] US 3760951 A 19730925 - MANSFIELD E
• [A] US 3519133 A 19700707 - BROERING ROGER F
• [A] US 1047070 A 19121210 - KANTROWITZ BERNARD A [US]
• See also references of WO 2021195386A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 11944928 B2 20240402; US 2021299602 A1 20210930; CA 3132826 A1 20210930; CN 114072219 A 20220218; EP 3946682 A1 20220209; EP 3946682 A4 20230125; JP 2023519455 A 20230511; KR 20220150195 A 20221110; TW 202146097 A 20211216; US 2024207767 A1 20240627; WO 2021195386 A1 20210930

DOCDB simple family (application)
US 202117213847 A 20210326; CA 3132826 A 20210325; CN 202180003191 A 20210325; EP 21774271 A 20210325; JP 2021564376 A 20210325; KR 20217035416 A 20210325; TW 110111132 A 20210326; US 2021024165 W 20210325; US 202418594533 A 20240304